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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/858,289	05/15/2001	Nicholas J. Schork	G-055US04DIV	2959	
23557 7590 03/19/2004 SALIWANCHIK LLOYD & SALIWANCHIK A PROFESSIONAL ASSOCIATION 2421 N.W. 41ST STREET SUITE A-1 GAINESVILLE, FL 326066669			EXAMINER		
			LY, CHEYNE D		
			ART UNIT	PAPER NUMBER	
			1631		
			DATE MAILED: 03/19/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.	Applicant(s)	
09/858,289	SCHORK ET AL.	
Examiner	Art Unit	
Cheyne D Ly	1631	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

 Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, how after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory mit. If NO period for reply is specified above, the maximum statutory period will apply and will expire. Failure to reply within the set or extended period for reply will, by statute, cause the application. Any reply received by the Office later than three months after the mailing date of this communic earned patent term adjustment. See 37 CFR 1.704(b). 	inimum of thirty (30) days will be considered timely. • SIX (6) MONTHS from the mailing date of this communication. to become ABANDONED (35 U.S.C. § 133).					
Status						
1) Responsive to communication(s) filed on <u>15 December 2003</u> .						
2a) This action is FINAL . 2b) This action is non-fir	nal.					
3) Since this application is in condition for allowance except for for	rmal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle,	1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 31 and 48 is/are pending in the application.						
4a) Of the above claim(s) 48 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>31</u> is/are rejected.	Claim(s) <u>31</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) 31 and 48 are subject to restriction and/or election red	quirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) \boxtimes The drawing(s) filed on <u>15 December 2003</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The barror declaration is objected to by the Examiner. Note the	e attached Office Action of John 1 10-132.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35	5 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified c	opies not received.					
Attachment(s)						
1) Notice of References Cited (PTO-892) 4)	Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5)	Notice of Informal Patent Application (PTO-152) Other:					
S. Patent and Trademark Office						

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DETAILED ACTION

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1. Applicants' arguments filed December 15, 2003 have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

- 2. The addition of claim 48 has been acknowledged. However, claim 48 is distinct from claim 31 due to claim 48 requiring the method step of "determining in unrelated individuals whether the association of a plurality of biallelic markers" which is not present in the method of claim 31. The completely distinct critical features of each method support the undue search burden if they were examined together.
- 3. Applicant's Terminal Disclaimer, filed December 15, 2003, has been accepted.
- 4. The new title has been accepted.
- 5. Claim 31 is examined on the merits.
- 6. This is a NON-FINAL OFFICE ACTION.

CLAIM REJECTIONS - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claim 31 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Macaubas et al. (June 1997).

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etc. and Table 1).

9. Macaubas et al. discloses a method of sequence analysis demonstrating that DQ1-associated DQCAR alleles have a single C -> A nucleotide substitution interrupting the CA repeat array (biallelic marker as defined in the specification, page 8, lines 25-29) (Abstract

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- 10. The detectable trait associated with said biallelic markers is HLA-DQ being expressed in the surface of cells in an immune response (page 635, column 2, last paragraph to page 636, column 1, lines 1-5).
- 11. The method of Macaubas et al. comprises the analysis of a DQB1*0201 is different from a plurality of biallelic markers corresponding to different chromosomes (random genomic regions) (Figure 1 and Table 1) resulting in different diseases (page 638, column 2, lines 1-10).
- 12. The above citations of Macaubas et al. anticipate the limitations of instant claim 31.

RESPONSE TO ARGUMENT

- 13. Specific to Applicant's argument that Yagil et al. does not disclose the limitation of biallelic markers as defined by the instant specification (page 8, line 28). Macaubas et al. has been cited to disclose the limitation of biallelic markers as defined by the instant specification (page 8, line 28).
- 14. Specific to Applicant's argument Yagil et al. does not disclose the limitation of unrelated individuals. It is noted that the limitation of unrelated individuals is absent from claim 31. Further, claim 48, which recites the limitation of unrelated individuals, has not been examined as discussed above.

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CONCLUSION

- 15. NO CLAIM IS ALLOWED.
- 16. Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 193), and 1157 OG 94 (December 28, 1993) (see 37 CFR § 1.6(d)). The CM1 Fax Center number is (703) 872-9306.
- 17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. Dune Ly, whose telephone number is (571) 272-0716. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.
- 18. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (571) 272-0722.
- 19. Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instruments Examiner, Tina Plunkett, whose telephone number is (571) 272-0549 or to the Technical Center receptionist whose telephone number is (703) 308-0196.

C. Dune Ly 3/15/04

Adm [] Marala Ardin H. Marschel 3/16/04 Primary Examiner